A large petroleum refinery in Texas used our hydrogen sulfide abatement product, FQE™ H2S, to decontaminate the sour water sump of the sulfur recovery unit (SRU).

The initial H₂S readings from the sour water sump exceeded 62,000 ppm (6.2%). A 10% FQE H₂S mixture in water was prepared and added to a vacuum truck. The sump contents were vacuumed into the truck containing the FQE H₂S. The truck contents were sampled five minutes later with the H₂S being reported at 0 ppm. A 10% solution of FQE H₂S was added to the sour water sump to treat the solids within. The liquid was circulated for 10 minutes and then sampled. There was 0 ppm hydrogen sulfide detected in the sump solids. They were disposed in the plant without an H₂S release.

Typically, this process is conducted by the slow addition of a strong oxidizing liquid over a 2-3 day period of time, resulting in extra time and additional disposal considerations being required.
Improve efficiency and financial performance

At FQE Chemicals, we help our clients improve the efficiency, safety, and financial performance of their assets by creating innovative and unique chemistries that provide superior value and performance. Our award-winning chemistries are distributed globally.